

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Cook, et al.

Serial No.: **09/996,263**

Group Art Unit: **1635**

Filing Date: **November 28, 2001**

Examiner: **James Schultz**

For: SUGAR MODIFIED OLIGONUCLEOTIDES

Pending Claims 8 - 13

8 (Amended). A mixed sequence oligonucleotide or oligonucleotide analog including more than one 2'-modified 2'-deoxyfuranosyl moiety wherein said modification comprises substitution by halo, azido, amino, alkoxy, thioalkoxy, alkylamino, alkyl, and wherein one of said 2'-modified 2'-deoxyfuranosyl moieties is different from another of said 2'-modified 2'-deoxyfuranosyl moieties.

9 (Amended). The mixed sequence oligonucleotide or oligonucleotide analog of claim 8, wherein one of said 2'-modified 2'-deoxyfuranosyl moieties comprises substitution by halo, azido, amino, thioalkoxy, alkylamino or alkyl and another of said 2'-modified 2'-deoxyfuranosyl moieties comprises substitution by alkyloxy.

10 (Amended). The mixed sequence oligonucleotide or oligonucleotide analog of claim 8, wherein one of said 2'-modified 2'-deoxyfuranosyl moieties comprises substitution by halo, azido, amino, thioalkoxy or alkyl and another of said 2'-modified 2'-deoxyfuranosyl moieties comprises substitution by methoxy.

11 (Amended). The mixed sequence oligonucleotide or oligonucleotide analog of claim 8, wherein alkyl comprises a straight or branched chain alkyl.

12 (Amended). The mixed sequence oligonucleotide or oligonucleotide analog of claim 11, wherein alkyl includes unsaturation within the alkyl carbon chain.

13 (New) The mixed sequence oligonucleotide of claim 8 wherein said oligonucleotide is a nuclease resistant oligonucleotide.